

Rabbit ATL1 Polyclonal Antibody | anti-ATL1 antibody

ATL1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326965	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ATL1; Polyclonal Antibody; ATL1 Antibody; AD FSP; atl1; ATLA1_HUMAN; Atlastin GTPase 1; Atlastin-1; Atlastin1; Brain specific GTP binding protein; Brain-specific GTP-binding protein; FSP1; GBP-3; GBP3; GTP-binding protein 3; Guanine nucleotide-binding protein 3; Guanylate binding protein 3; hGBP3; HSN1D; Spastic paraplegia 3 protein A; SPG 3A; SPG3; SPG3A; SPG3A gene; anti-ATL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATL1 antibody detects endogenous levels of total ATL1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	553
Applicable Applications for anti-ATL1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATL1
Subcellular Location	Endoplasmic Reticulum Membrane. Golgi Apparatus Membrane. Cell Projection > Axon.
Tissue Specificity	Expressed predominantly in the adult and fetal central nervous system. Measurable expression in all tissues examined, although expression in adult brain is at least 50-fold higher than in other tissues. Detected predominantly in pyramidal neurons in the cerebral cortex and the hippocampus of the brain. Expressed in upper and lower motor neurons (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (92%), Horse (92%), Sheep (92%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Mouse brain lysate, using ATL1 Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of extracts from rat spleen, using ATL1 Antibody.



IHC (Immunohistochemistry)

AAA326965 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ATL1 antibody

Description: The protein encoded by this gene is a GTPase and a Golgi body transmembrane protein. The encoded protein can form a homotetramer and has been shown to interact with spastin and with mitogen-activated protein kinase kinase kinase 4. This protein may be involved in axonal maintenance as evidenced by the fact that defects in this gene are a cause of spastic paraplegia type 3. Three transcript variants encoding two different isoforms have been found for this gene.

Function: GTPase tethering membranes through formation of trans-homooligomers and mediating homotypic fusion of endoplasmic reticulum membranes. Functions in endoplasmic reticulum tubular network biogenesis (PubMed:27619977). May also regulate Golgi biogenesis. May regulate axonal development.

Subunit Structure: Monomer as apoprotein and in the GDP-bound form. Homodimer in the GTP-bound form.

Interacts (via N-terminal region) with MAP4K4 (via CNH regulatory domain). Interacts with REEP5, RTN3 and RTN4 (via the transmembrane region). Interacts with SPAST; interaction is direct. May interact with TMED2. Interacts with REEP1. Interacts with CPT1C. Interacts with ARL6IP1 (By similarity). Interacts with ZFYVE27 (PubMed:23969831).

Similarity: Belongs to the TRAFAC class dynamin-like GTPase superfamily. GB1/RHD3-type GTPase family. GB1 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	189181742
NCBI GeneID	51062
NCBI Accession #	NP_001121185.1
NCBI GenBank Nucleotide #	NM_001127713.1
UniProt Accession #	Q8WXF7; O95890; Q69YH7; Q96FK0; A6NND5; A8K2C0; G5E9T1
Molecular Weight	Observed: 63 kDa Predicted: 64 kDa
NCBI Official Full Name	atlastin-1 isoform b
NCBI Official Synonym Full Names	atlastin GTPase 1
NCBI Official Symbol	ATL1
NCBI Official Synonym Symbols	FSP1; GBP3; SPG3; HSN1D; SPG3A; AD-FSP; atlastin1
NCBI Protein Information	atlastin-1
UniProt Protein Name	Atlastin-1
UniProt Gene Name	ATL1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/at11-antibody-immunohistochemistry-western-blot-elisa/326965>